

Hazardous Waste Generation Trends in California 1997-2002

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DTSC does not have complete information on all hazardous waste generated in California, mostly due to the onsite treatment of hazardous wastewaters that are then discharged to a publicly owned treatment works (POTW) and are not reported. The Department has information on hazardous waste shipped offsite through the Hazardous Waste Tracking System (HWTS) and on RCRA hazardous waste generated through the federal Biennial Report Summary (excluding POTW discharges). Manifest data for offsite hazardous waste shipments are used as an indicator of hazardous waste generation trends and are presented in the attached charts and table.

Total hazardous waste shipped offsite is represented by the top line on the Generation Trend chart. The tonnages were calculated by subtracting used oil (waste codes 221-waste oil, 222-oil/water separation sludge, and 223-unspecified oil containing wastes) from the total shipped offsite. There has been a steady increase in the total amount of hazardous waste shipped offsite from 1997 to 2002.

Used oil is subtracted out of the total for several reasons, mainly because with the consolidated manifest there is no way to track used oil shipments from the actual generator to the final Treatment, Storage, and Disposal Facility (TSDF) where it is treated. Shipments that go through transfer facilities are counted when they are transported to the transfer facility on a manifest and again when they are shipped out on another manifest, effectively double counting. This double counting skews the data in HWTS. The amount of used oil treated by California facilities has for the most part, except for 97-98, steadily increased from 1993 to present.

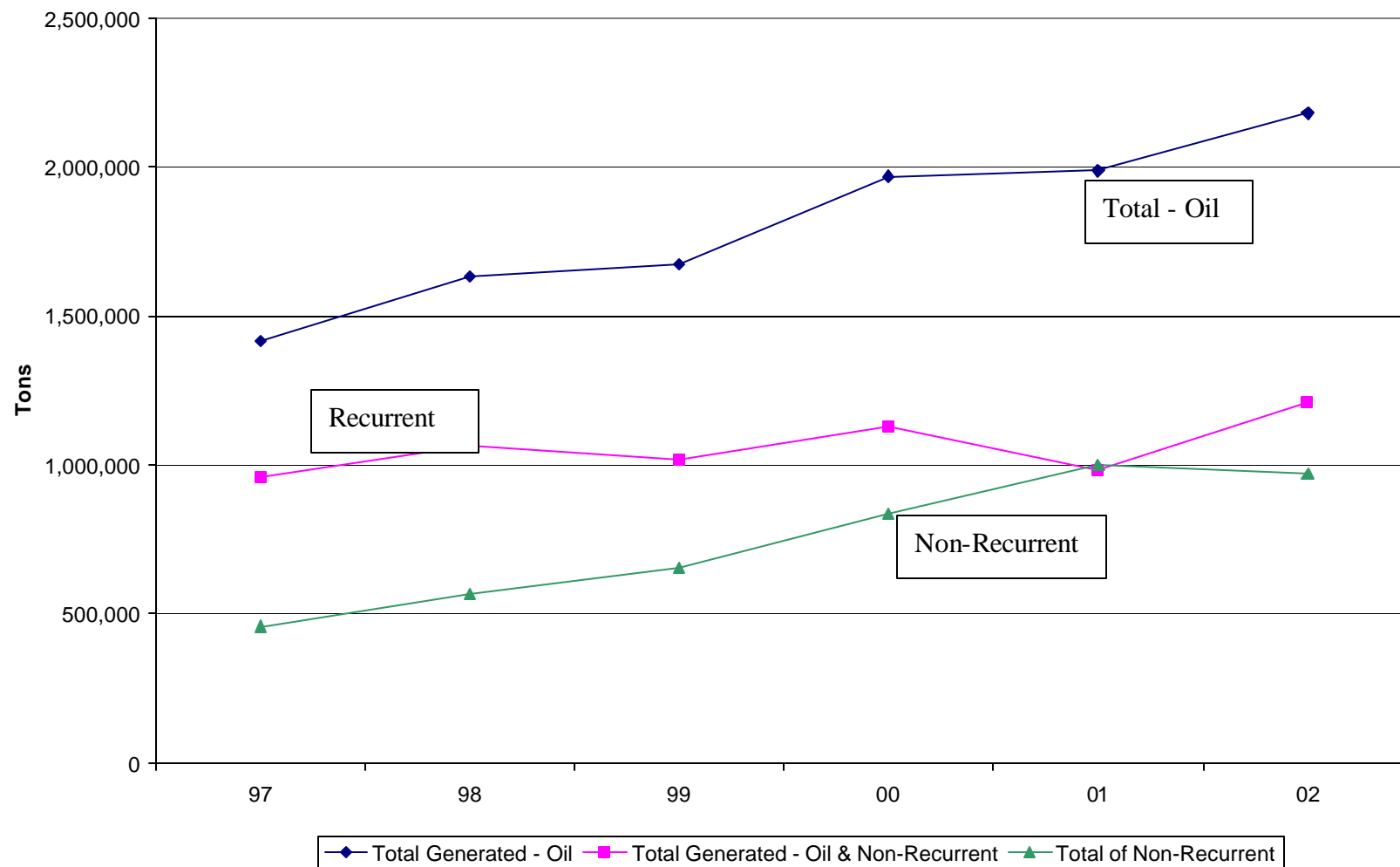
The middle line is routinely shipped offsite waste, or recurrent waste. It is total hazardous wastes shipped offsite minus used oil and non-recurrent waste. Recurrent waste is a better measure than total waste for hazardous waste generation trends in California. Non-recurrent wastes are those that typically come from cleanup/removal operations and include waste codes: 611-Contaminated soil from site cleanups, 151-Asbestos containing waste, 261-PCB's and materials containing PCB's, and 612-Household hazardous waste. Household hazardous waste was included in non-recurrent waste to restrict the data to commercial hazardous waste generation.

Cleanup/removal operations waste, or non-recurrent waste, is depicted on the bottom line of the Generation Trends chart. As can be seen there has been a fairly steady increase in the amount of material generated from these operations.

The total tons received by each of the hazardous waste landfills in California are shown on the second chart. The tonnage received at Chemical Waste Management has increased from slightly over 200,000 tons to almost 675,000 tons in 2001 before dropping last year. Tonnages at the Clean Harbors facilities (formerly Safety Kleen) have remained flat, except for year 2002 at the Buttonwillow facility. This information has been highlighted since hazardous waste sent to land disposal is subject to disposal fees.

The charts use data from the HWTS from 1997 to 2002. Data is from California manifests only; shipments out of state on other states manifests were not included as they represent a small percentage of the total manifests used to ship hazardous waste in California.

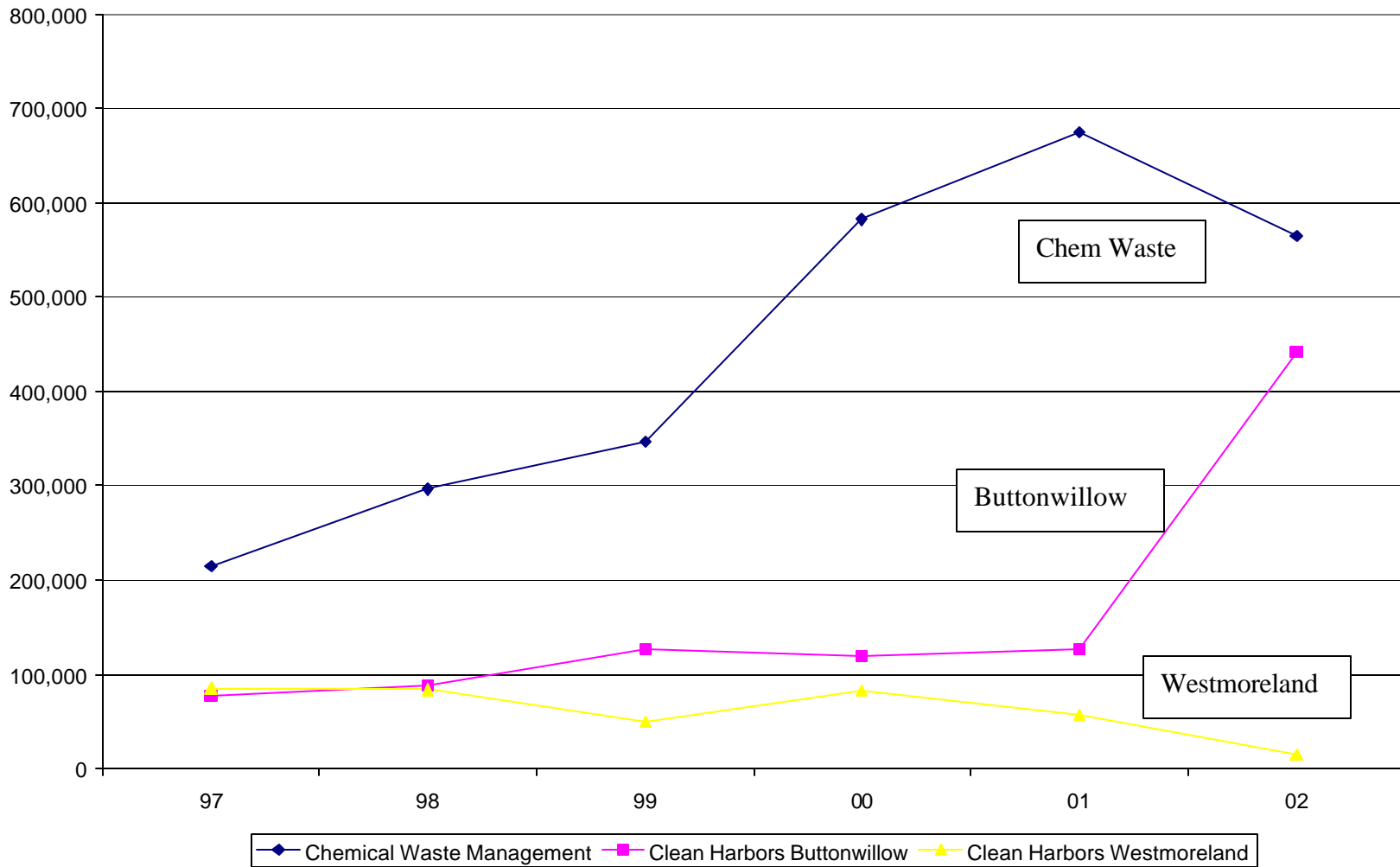
Generation Trends



Recurrent=HW routinely shipped offsite generated by ongoing industrial activities (manufacturing or facility operations)

Non-recurrent=HW that typically comes from cleanup/removal operations

Class I Landfills-Tons Received



	HWTS-Tons shipped offsite					
	97	98	99	00	01	02
Total Generated - Oil	1,415,250	1,630,529	1,671,220	1,967,798	1,985,954	2,179,499
Total Generated - Oil & Non-Recurrent	957,242	1,062,143	1,018,571	1,130,103	983,941	1,210,423
Total of Non-Recurrent	458,008	568,386	652,649	837,695	1,002,013	969,076

Oil = Waste Codes 221, 222, 223

Non-Recurrent = Waste Codes 611, 151, 261, 612 same as P2 report

	Landfills-Total Received					
	97	98	99	00	01	02
Chemical Waste Management	214,278	296,321	346,982	582,143	674,916	564,232
Clean Harbors Buttonwillow	77,187	88,266	126,494	118,743	126,367	442,460
Clean Harbors Westmoreland	85,204	83,648	49,564	83,262	57,437	15,561